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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,564	03/30/2004	Bertrand Bertrand	02RO42254500	4127

27975 7590 04/09/2007
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EXAMINER

TRA, ANH QUAN

ART UNIT PAPER NUMBER

2816

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.		Applicant(s)	
	10/813,564		BERTRAND ET AL.	
	Examiner		Art Unit	
	Quan Tra		2816	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 February 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 12,13,16-23,26-33 and 36-42 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 12,13,16-23,26-33 and 36-42 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 02/23/07 has been entered.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 12, 13, 16-23, 26-33 and 36-42 are rejected under 35 U.S.C. 102(b) as being anticipated by Naura (USP 6127898).

As to claim 12, Naura discloses in figure 5 a comparator (circuit on the right of capacitor C) with two thresholds comprising: a two-threshold latch including an input (E) and an output (S) respectively forming an input and an output of the comparator, and including a first node (C) between a first power supply terminal (Vdd) and the output of the comparator; and a first negative feedback loop (T5, T7', T8) acting on the first node for setting a first threshold of the comparator as a function of a first power supply potential (Vdd or ground) applied to the first power supply terminal, and as a function of a first reference potential (Vref1), wherein the first threshold is a voltage rise triggering threshold (the first feedback loop controls the output pull up threshold at node C. Therefore, it is considered as voltage rise triggering threshold), and the first reference potential (1 volt, col. 5, lines 34-36) is less than or equal to the first power supply

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potential, which is positive, and wherein a difference between the first power supply potential and the first reference potential is positive (figure 6 shows that VDD is equal to 5 volts; therefore, $VDD - V_{ref1}$ is about 4 volts which is positive) and increases as a function of the first power supply potential to limit an increase in the first threshold when the first power supply potential increases (Col. 5, lines 30-40, teaches Vref is constant. Therefore, when Vdd increases, the different between Vdd and Vref1 also increases).

As to claim 13, figure 5 shows that the two-threshold latch further includes a second node (D) between a second power supply terminal and the output of the comparator; and further comprising a second negative feedback loop (T6, T9', T10) for setting a second threshold of the comparator as a function of a second power supply potential (ground or Vdd) applied to the second power supply terminal, and as a function of a second reference potential (V_{ref2}).

As to claim 16, figure 5 shows that the second threshold is a voltage drop triggering threshold (the second feedback loop controls the output pull-down at node D. Therefore, it is considered as voltage drop threshold), and the second reference potential is greater than or equal to the second power supply potential, which is ground.

As to claim 17, figure 5 shows that the first negative feedback loop comprises first and second transistors (T5, T7') each comprising a source, a drain and a gate, with the source of the first transistor being connected to the first node, the gate of the first transistor being connected to the source of the second transistor, the gate of the second transistor being connected to the output of the comparator, the first power supply potential (ground) being applied to the drain of the first transistor, and the first reference potential being applied to the drain of said second transistor.

As to claim 18, figure 5 shows that the first negative feedback loop further comprises a third transistor (T8) comprising a drain connected to the gate of the first transistor, a gate

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connected to the output of the comparator, and a source connected to the second power supply potential (Vdd).

As to claim 19, figure 5 shows the second negative feedback loop comprises fourth and fifth transistors (T6, T9') each comprising a source, a drain and a gate, with the source of the fourth transistor being connected to the second node, the gate of the fourth transistor being connected to the source of the fifth transistor, the gate of the fifth transistor being connected to the output of the comparator, the second power supply potential being applied to the drain of the fourth transistor, and the second reference potential being applied to the drain of the fifth transistor.

As to claim 20, figure 5 shows that the second negative feedback loop further comprises a sixth transistor (T10) comprising a drain connected to the gate of the fourth transistor, a gate connected to the output of the comparator, and a source connected to the first power supply potential.

As to claim 21, figure 5 shows that the two-threshold latch comprises a plurality of transistors (T1-T4) series-connected between the first power supply terminal and a second power supply terminal, the plurality of transistors each comprising a gate connected together and to the input of the two-threshold latch, the plurality of transistors including seventh and eighth transistors (T1, T2) having a first type of conductivity, and ninth and tenth transistors having a second type of conductivity (T3, T4).

As to claim 22, figure 5 shows that the eighth and ninth transistors each comprises a drain connected together; and wherein the two-threshold latch further comprises an inverter (3) connected between the drain of the eighth and ninth transistors and the output of the comparator.

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Claims 23, 26-33 and 36-42 recite similar limitations of claims above. Therefore, they are rejected for the same reasons.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quan Tra whose telephone number is 571-272-1755. The examiner can normally be reached on 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Quan Tra', with a long horizontal flourish extending to the right.

QUAN TRA
PRIMARY EXAMINER
ART UNIT 2816

April 2, 2007